

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 April 2004 (22.04.2004)

PCT

(10) International Publication Number
WO 2004/033651 A2

- (51) International Patent Classification⁷: C12N Grove, PA 19090 (US). CHEN, Xi [CN/US]; 107 Whitney Place, Lansdale, PA 19446 (US).
- (21) International Application Number: PCT/US2003/031974 (74) Agents: DOYLE, Kathryn et al.; Morgan, Lewis & Bockius L.L.P., 1701 Market Street, Philadelphia, PA 19103 (US).
- (22) International Filing Date: 8 October 2003 (08.10.2003)
- (25) Filing Language: English (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (26) Publication Language: English (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (30) Priority Data:
PCT/US02/32263 9 October 2002 (09.10.2002) US
10/287,994 5 November 2002 (05.11.2002) US
10/360,770 6 January 2003 (06.01.2003) US
10/360,779 19 February 2003 (19.02.2003) US
10/410,945 9 April 2003 (09.04.2003) US
- (71) Applicant (for all designated States except US): NEOSE TECHNOLOGIES, INC. [US/US]; 102 Witmer Road, Horsham, PA 19044 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): DE FREES, Shawn [US/US]; 126 Filly Drive, North Wales, PA 19454 (US). ZOPF, David [US/US]; 560 W. Beechtree Lane, Wayne, PA 19087 (US). BAYER, Robert [US/US]; 6105 Dirac Street, San Diego, CA 92122 (US). BOWE, Caryn [US/US]; 310 Maple Avenue, Doylestown, PA 18901 (US). HAKES, David [US/US]; 14 Fern Avenue, Willow
- Published:**
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 2004/033651 A2

(54) Title: ERYTHROPOIETIN: REMODELING AND GLYCOCONJUGATION OF ERYTHROPOIETIN

(57) Abstract: The invention includes methods and compositions for remodeling a peptide molecule, including the addition or deletion of one or more glycosyl groups to a peptide, and/or the addition of a modifying group to a peptide.